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PPLICATION NO. FILING DATE		FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
09/674,167	. 1	2/28/2000	Nobuyoshi Nambu	0052/036001	2870
22893	7590	09/17/2002		_	
SMITH PAT	ENT O	FFICE	EXAMINER		
1901 PENNS' SUITE 200	YLVANI	A AVENUE N W	CINTINS, IVARS C		
WASHINGTON, DC 20006				ART UNIT	PAPER NUMBER
				1724	カン
				DATE MAILED: 09/17/2002	

Please find below and/or attached an Office communication concerning this application or proceeding.

## Office Action Summary

Application No. 09/674,167

Applicant(s)

Examiner

Nambu et al.

Ivars Cintins

Art Unit 1724



	The MAILING DATE of this communication appears	on the cover sheet with the correspondence address				
	or Reply					
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.  • Extensions of time may be available under the provisions of 37 CFR 1.136 (a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the						
- If the p - If NO p - Failure - Any re	date of this communication. seriod for reply specified above is less than thirty (30) days, a reply within the seriod for reply is specified above, the maximum statutory period will apply to reply within the set or extended period for reply will, by statute, cause to ply received by the Office later than three months after the mailing date of patent term adjustment. See 37 CFR 1.704(b).	and will expire SIX (6) MONTHS from the mailing date of this communication. the application to become ABANDONED (35 U.S.C. § 133).				
Status						
1) 💢	Responsive to communication(s) filed on Jan 31, 2	2002				
2a) 🗌	This action is <b>FINAL</b> . 2b) 💢 This ac	tion is non-final.				
3) 🗆	Since this application is in condition for allowance closed in accordance with the practice under Ex pa	except for formal matters, prosecution as to the merits is arte Quayle, 1935 C.D. 11; 453 O.G. 213.				
Disposit	ion of Claims					
4) 💢	Claim(s) 1, 3, 4, 6-10, 12-18, 20, and 22-26	is/are pending in the application.				
4	a) Of the above, claim(s)	is/are withdrawn from consideration.				
5) 🗌	Claim(s)	is/are allowed.				
6) 💢	Claim(s) <u>1, 3, 4, 6-10, 12-18, 20, and 22-26</u>	is/are rejected.				
7) 🗆	Claim(s)	is/are objected to.				
		are subject to restriction and/or election requirement.				
	ion Papers					
9) 🗆	The specification is objected to by the Examiner.					
10)	The drawing(s) filed on is/are	a) $\square$ accepted or b) $\square$ objected to by the Examiner.				
	Applicant may not request that any objection to the o	rawing(s) be held in abeyance. See 37 CFR 1.85(a).				
11)	The proposed drawing correction filed on	is: a) $\square$ approved b) $\square$ disapproved by the Examiner.				
	If approved, corrected drawings are required in reply					
12)	The oath or declaration is objected to by the Exami	ner.				
	under 35 U.S.C. §§ 119 and 120					
13) Acknowledgement is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).						
a) <b> </b> X	All b)□ Some* c)□ None of:					
	. U Certified copies of the priority documents hav					
_	. U Certified copies of the priority documents hav					
	. XI Copies of the certified copies of the priority do application from the International Bure the attached detailed Office action for a list of the	ocuments have been received in this National Stage au (PCT Rule 17.2(a)).				
The state of the s						
a) The translation of the foreign language provisional application has been received.  15) Acknowledgement is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121.						
Attachme		priority under 35 0.3.C. 33 120 and/or 121.				
1) Notice of References Cited (PTO-892)  4) Interview Summary (PTO-413) Paper No(s)						
2) Noti	e of Draftsperson's Patent Drawing Review (PTO-948)	5) Notice of Informal Patent Application (PTO-152)				
3)   Information Disclosure Statement(s) (PTO-1449) Paper No(s)						

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The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

Claims 1, 3, 4, 6-10, 12-18, 20 and 22-26 are rejected under 35 U.S.C. § 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which Applicant regards as the invention. claims contain <u>numerous</u> vague and indefinite expressions. example, the term "at least as a portion of  $\underline{a}$  filter material" (claim 1, lines 1-2) is vague, and indefinite as to the limitation intended. The term "being introduced into ..." (claim 1, lines 3-5) appears to be a method step, and is hence indefinite as to the product limitation intended. Applicant is advised that an amendment reciting that the recited fiber contains a functional group of the type recited would overcome this portion of the rejection. The term "having an amino group and at least two hydroxyl groups combined with carbons" (claim 1, lines 8-9) is vague, and indefinite as to the limitation intended, particularly since constituent "G" in formula (1) does not have to be a polyhydric alcohol, and constituent "R" in this formula could be a hydrogen atom. The term "residue of a chain

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sugar alcohol" (claim 1, line 13) is vague, and indefinite as to the material intended. The term "in which an amino group is eliminated from ..." (claim 3, lines 2-3) is vague, and indefinite as to the limitation intended. Claims 6-8 appear to merely recite process steps, and are therefore indefinite as to the product limitations intended. similarly, claim 10 is vague, and indefinite as to the limitation intended. The term "allowing a liquid to pass through a device" (claim 15, lines 2-3) is vague, and indefinite as to the process steps intended. The term "processing ... into a filter" (claim 17, lines 2-3) is vague, and indefinite as to the manipulative steps intended. recitation that the fiber has a functional group "in a molecule" (claim 17, lines 3-4; claim 23, line 2; claim 24, line 2; claim 25, lines 7-8) is vague, and indefinite as to the limitation intended. The term "wherein G and R have the same meaning as defined above" (claim 17, line 15) is vague, and indefinite as to the limitation intended, since neither "G" nor "R" has been previously defined in this claim. The term "allowed to react" (claim 18, lines 2-3; claim 23, lines 4 and 6) is vague, and indefinite as to the process steps intended. The term "at least one selected from the group ..." (claim 25, line 2) is vague, and indefinite as to the limitation intended. Claim 26 is vague, and indefinite as to the limitations intended. Furthermore, the

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repeated use of parenthesis and brackets throughout the claims (e.g. claim 1, lines 13-17 and 19-20; claim 7, last line; claim 10, lines 6-7; claim 17, lines 11-12, 15 and 17-18; and claim 26, lines 7-8) is somewhat indefinite, since brackets normally designate subject matter intended to be deleted from a claim (see claim 1, line 4).

Claims 1, 3, 4, 6-10, 12-18, 20 and 22-26 would be allowed if rewritten or amended to overcome the above rejection under 35 U.S.C. § 112.

Nambu et al. (U.S. Patent Nos. 6,168,863 & 6,200,481) disclose similar chelate forming fibers.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to I. Cintins whose telephone number is (703) 308-3840. The examiner can normally be reached on Monday through Friday from 8:30 AM to 5:00 PM.

The fax phone numbers for this art unit are: (703) 872-9311 for "Official" faxes after Final Rejection; (703) 872-9310 for all other "Official" faxes; and (703) 872-9492 for "Draft" and other "Unofficial" faxes.

Any inquiry of a general nature or relating to the status of this application should be directed to the Group receptionist whose telephone number is (703) 308-0661.

Ivars C. Cintins
Primary Examiner

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I. Cintins September 14, 2002